

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (previously presented) A block encoding method, comprising steps of: determining whether an original block of m bits is a $(2N-1)^{\text{st}}$ block of m bits, " m " and N being positive integers; and encoding, if the original block of m bits is the $(2N-1)^{\text{st}}$ block of m bits, the original block of m bits as an A type weighted block of n bits, having a preselected number of "1" bits and "0" bits and, if otherwise, encoding the original block of m bits as a B type weighted block of n bits, having another pre-selected number of "1" bits and "0" bits where " n " being an odd integer larger than " m ", wherein both A type weighted block and its corresponding B type weighted block are combined to form a balance coding block in which the bit number of "1" is equal to that of "0".

2. (original) The method of claim 1, wherein the bit number " a " of bit "1" in the A type weighted block of n bits satisfies a relation $2^m < {}_nC_a$, " a " being a positive integer, and the bit number of "1" in the B type weighted block of n bits is given by " $n-a$ ".

3. (previously presented) A block decoding method, comprising steps of: determining whether a weighted block of n bits is an A type weighted block of n bits having a preselected number of "1" bits and "0" bits, or a B type weighted block of n bits, having another preselected number of "1" bits and "0" bits, where " n " being an odd integer; and decoding, if the weighted block of n bits is the A type weighted block of n bits, the A type weighted block of n bits as a $(2N-1)^{\text{st}}$ original block of m bits and, if otherwise, decoding the B type weighted block of n bits as a $2N^{\text{th}}$ original block of m bits, N being a positive integer and " m " being a positive integer smaller than " n ", wherein both A type weighted block and its corresponding B type weighted block are combined to form a balance coding block in which the bit number of "1" is equal to that of "0".

4 (original). The method of claim 5, wherein the bit number " a " of "1" in the A type weighted block of n bits satisfies a relation $2^m < {}_nC_a$.

5 (currently amended). A coding/decoding apparatus, comprising: a first buffer for outputting a digitalized image signal on a basis of an original block of m bits and generating a timing signal for notifying when the original block is outputted, " m " being a positive integer; a first control part for determining whether the original block of m bits is a $(2N-1)^{\text{st}}$ original block of m bits, based on the timing signal, N being a positive integer; an encoding part for encoding, if the original block of m bits is the $(2N-1)^{\text{st}}$ original block of m bits, the original block of n m bits representing a as an A type weighted block of n bits having a preselected number of

“1” bits and “0” bits, or a B type weighted block of n bits and, if otherwise, encoding the original block of m bits as a B type weighted block of n bits having another preselected number of “1” bits and “0” bits, where “ n ” being an odd integer larger than “ m ”, wherein both A type weighted block and its corresponding B type weighted block are combined to form a balance coding block in which the bit number of “1” is equal to that of “0”; a storage medium for storing the encoded block of n bits; a second buffer for outputting the encoded block stored at the storage medium on a basis of n bits and generating a second timing signal for notifying when the encoded block is outputted; a second control part for determining whether the encoded block of n bits is the A type block of n bits based on the second timing signal; and a decoding part for decoding, if the encoded block of n bits is the A type block of n bits, the encoded block of n bits as the $(2N-1)^{\text{st}}$ original block of m bits and if otherwise, decoding the weighted block of n bits as the $2N^{\text{th}}$ original block of m bits.

6 (original). The apparatus of claim 5, wherein the bit number “ a ” of bit “1” in the A type weighted block of n bits satisfies a relation $2^m < {}_nC_a$, “ a ” being a positive integer, and the bit number of “1” in the B type weighted block of n bits is given by “ $n-a$ ”.